

SUPPORTING CIRCUITRY AND METHOD FOR CONTROLLING PIXELS

ABSTRACT OF THE DISCLOSURE

In a pixel display there is disclosed a pixel arrangement for LCD displays having 5 subpixel components. Namely, red, blue, green with adjacent red green pixels bordered by blue subpixels. Circuitry is disclosed for such pixels in which capacitors, functioning in sample hold circuits receive pulses to their terminal immediately after transistors are open with the resulting voltage change there occurring as an unintended voltage signal being applied to an LCD cell thereby causing unintended image artifacts. A new circuit and method is disclosed by which no transistor is open without its sample and hold stable for the remainder of the frame. Thus, preceding gate lines are tied through subsequent transistors such that all transistors open after the capacitors have their reference terminal stabilized. In this way, leakage current does not occur through the source and drain of the transistors attended and certain subpixels do not have unintended image artifacts present.